

## ABSTRACT OF THE DISCLOSURE

In a method for forming a light waveguide, a light waveguide forming substrate is disposed so that a photosemiconductor thin film or a conductive thin film on the substrate is in contact with an aqueous electrolyte solution containing a film forming material having a property that solubility or dispersibility to a water solution decreases according to the pH change, and a voltage is applied between the photosemiconductor thin film or the conductive thin film and a counter electrode by light irradiation.